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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Date: 21-06-17

Lab ID	:	CP-2017-06-19-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division BBMP, Bangalore.
Project Name	:	Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03
Agency	:	K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/40/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01/04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	20-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.393	552	688	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.616	572	690	20.0%	Satisfactory	Satisfactory

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Prepared By:
Harshitha

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-06-19-02 **Date: 21-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division BBMP, Bangalore.
Project Name	:	Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03
Agency	:	K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/40/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-06-17

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg, Min)	265.6	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-06-19-02 **Date: 21-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division BBMP, Bangalore.
Project Name	:	Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03
Agency	:	K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/40/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg, Min)	265.6	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-19-02** **Date: 18-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division BBMP, Bangalore.
Project Name	:	Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03
Agency	:	K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/40/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-06-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-19-02** **Date: 22-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division BBMP, Bangalore.
Project Name	:	Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03
Agency	:	K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/40/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	333	333	2.2	97.8	90-100
3	20 mm	5476	5809	38.7	61.3	30-70
4	10 mm	4634	10443	69.6	30.4	10-35
5	4.75 mm	4233	14676	97.8	2.2	0-5
6	Pan	324	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-06-19-02 **Date: 22-06-17**

Sample ID No : 2017-06-19-02-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.24	–

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-19-02** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division BBMP, Bangalore.
Project Name	:	Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03
Agency	:	K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/40/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2486	2729	54.6	45.4	25-55
4	4.75 mm	2134	4863	97.3	2.7	0-10
5	Pan	137	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-06-19-02 **Date: 23-06-17**

Sample ID No : 2017-06-19-02-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	24.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-06-19-02** **Date: 22-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division BBMP, Bangalore.
Project Name	:	Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03
Agency	:	K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/39/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	19-06-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	126	208	20.8	79.2	60-95	75-100	85-100	95-100
4	1.18 mm	155	363	36.3	63.7	30-70	55-90	75-100	90-100
5	600 micron	178	541	54.1	45.9	15-34	35-59	60-79	80-100
6	300 micron	184	725	72.5	27.5	5-20	8-30	12-40	15-50
7	150 micron	176	901	90.1	9.9	0-10	0-10	0-10	0-15
8	Pan	99	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-06-19-02 **Date: 22-06-17**

Sample ID No : 2017-06-19-02-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	8.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-06-28-05 **Date: 03/07/2017**

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division BBMP, Bangalore.

Project Name : Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03

Agency : K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/40/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-06-17

Sample ID No : 2017-06-28-05-01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	26/06/2017	03/07/2017	150.20 X 150.22 X 150.28	22563	8.446	394.9	17.5	17.7
2	M20 Concrete	M20	26/06/2017	03/07/2017	150.21 X 150.24 X 150.29	22568	8.399	404.0	17.9	
3	M20 Concrete	M20	26/06/2017	03/07/2017	150.24 X 150.18 X 150.22	22563	8.365	399.4	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-06-28-05
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division BBMP, Bangalore.
Project Name	:	Improvements to main and Cross roads of Rajiv Gandhi Nagara in Attur Ward No.03
Agency	:	K. Shankar Reddy, No.48/2, Kaverinagara, Kavalbyasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/40/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-06-17
Sample ID No	:	2017-06-28-05-01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/07/2017

Date: 24/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	26/06/2017	24/07/2017	150.18 X 150.17 X 150.15	22553	8.289	521.0	23.1	23.6
2	M20 Concrete	M20	26/06/2017	24/07/2017	150.22 X 150.24 X 150.26	22569	8.388	543.9	24.1	
3	M20 Concrete	M20	26/06/2017	24/07/2017	150.22 X 150.10 X 150.13	22548	8.256	532.1	23.6	

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